

Figure 1: Expression of the rat SM MHC -4.2 to +11.6 LacZ transgene in adult mouse SMC tissues. Extremely high expression was observed in virtually all SMC tissues with no expression in non-SMC (see histological evaluations in Fig. 3)

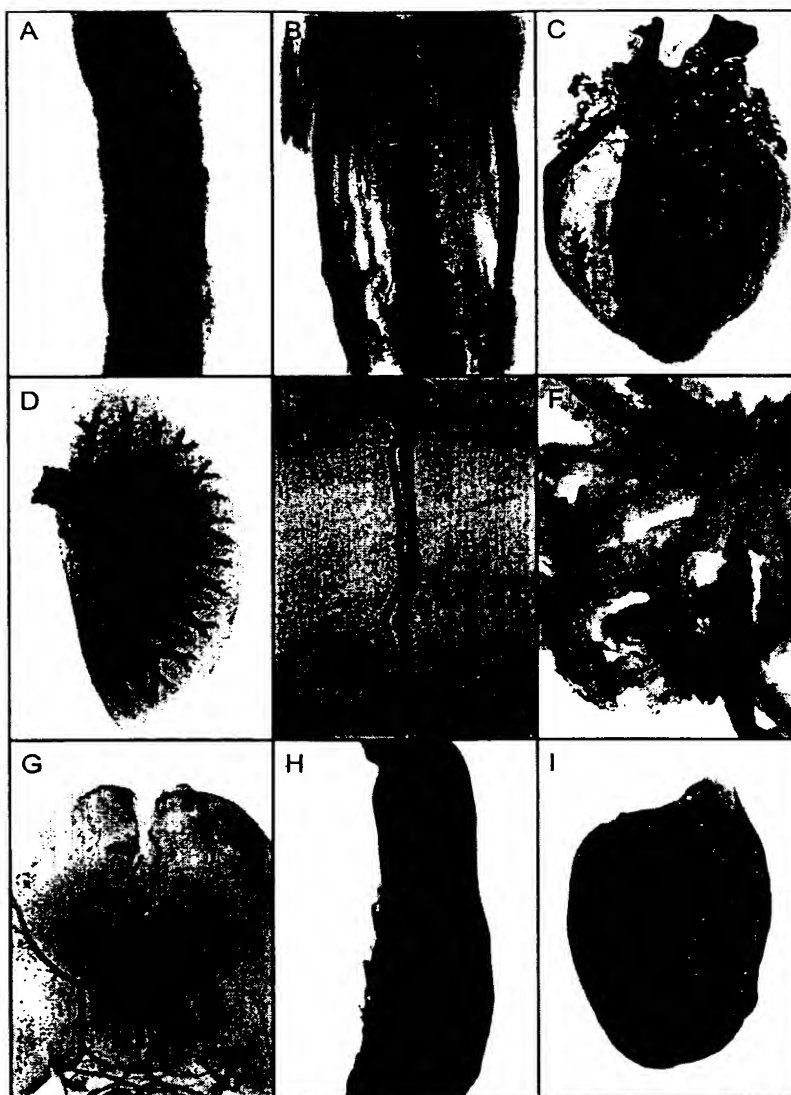


Figure 2

Histological Assessment of SM MHC- Cre Induced Gene Activation

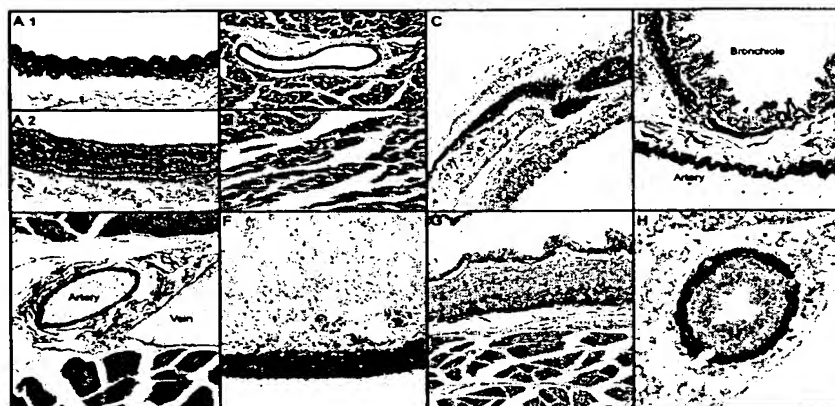


Figure 3

1005712 04 002

-4.2/+5.3::+7.5/+9 *LacZ*

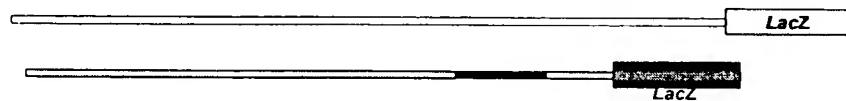


Figure 4

Expression of the -4.2 to +5.3/+7.5 to +9.0
SM MHC LacZ Transgene in Pulmonary
Arteries/Arterioles of Adult Mice

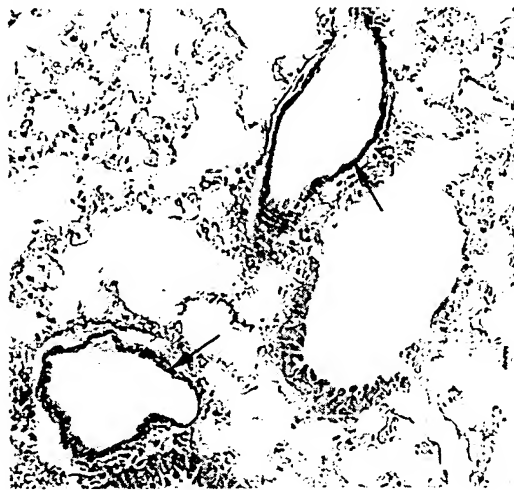


Figure 5

-4.2/+2.5::+5.3/+11.6

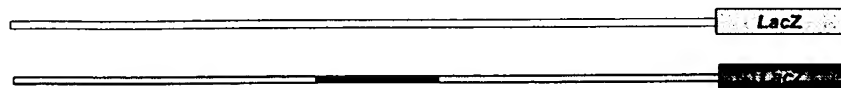


Figure 6

10057725.042402

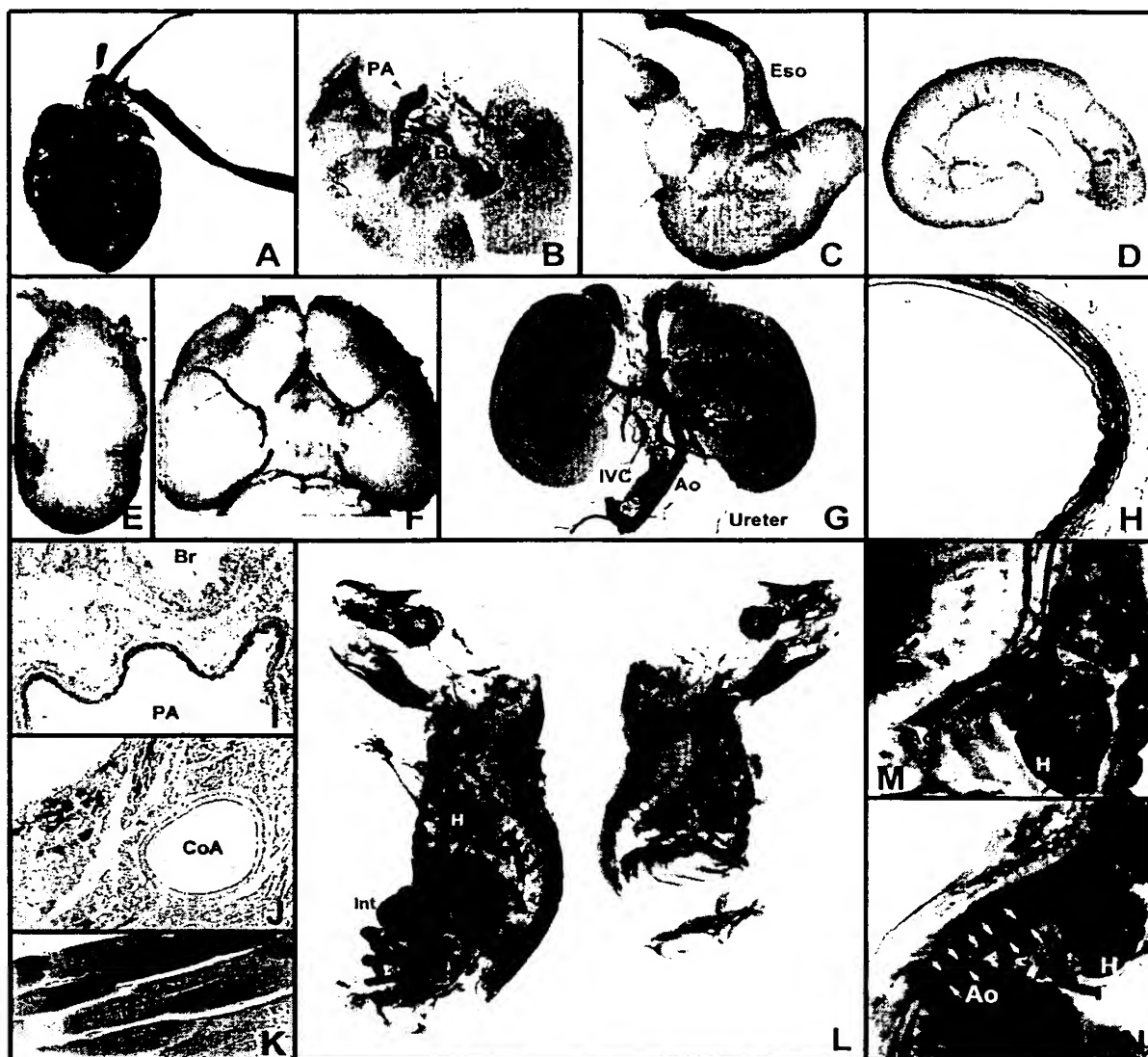


Figure 7

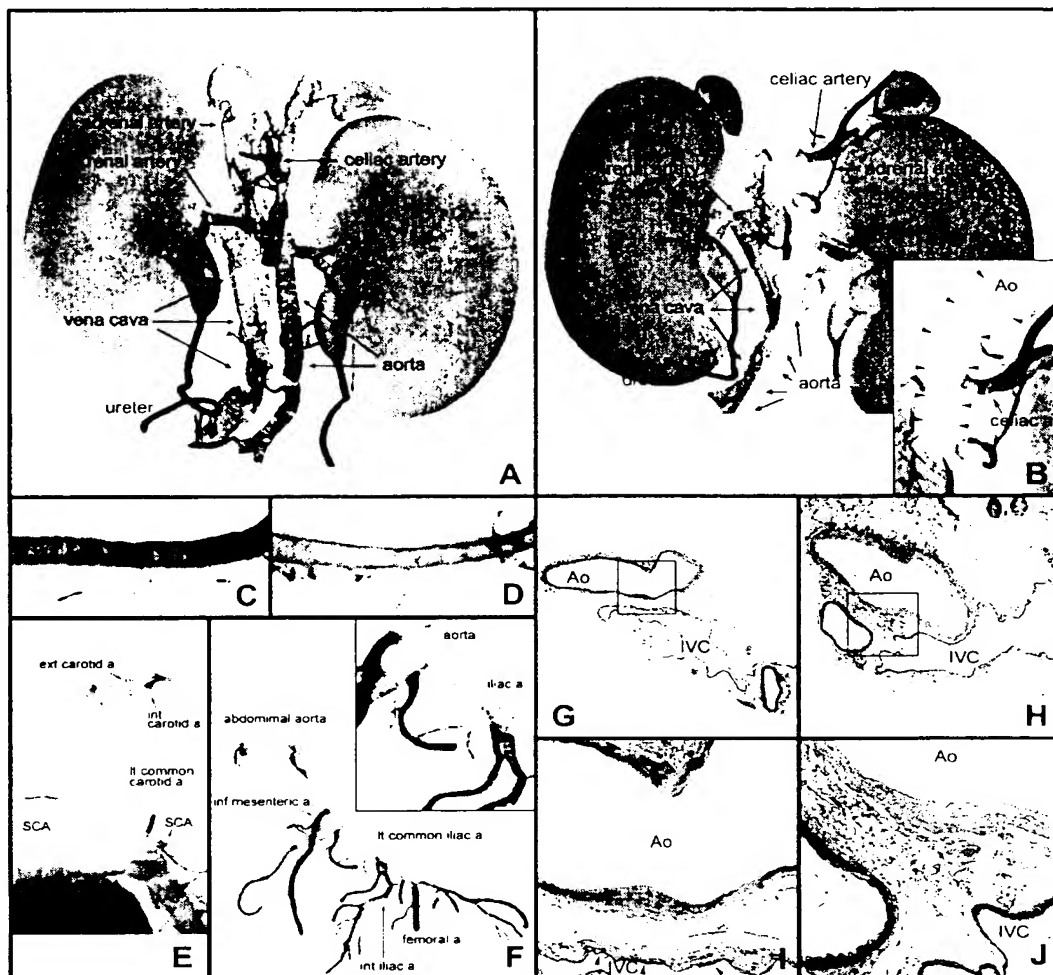
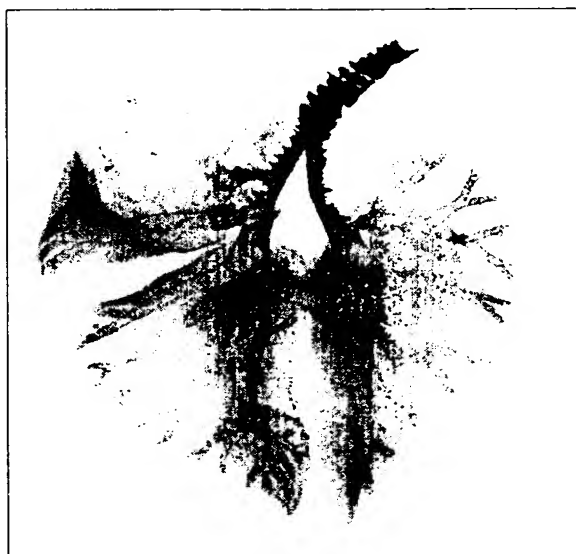


Figure. 8 Large artery-specific silencing of the reporter gene in intronic CARG mutant mice

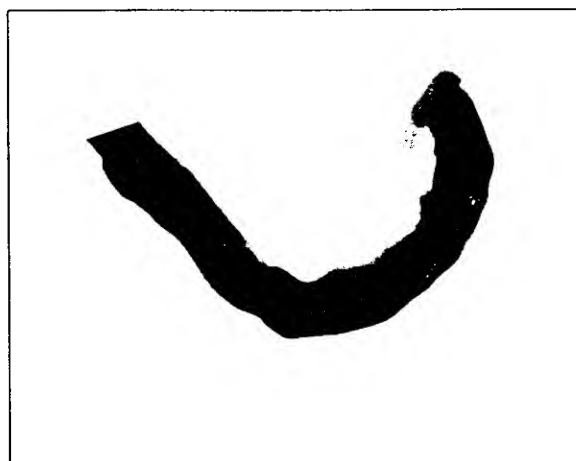
Fig. 9. Expression of the Human MHC-5.1/13.5-LacZ transgene in Adult (5-6 weeks old) Mouse Tissues Whole tissues were processed and stained for lacZ expression as previously described (Madsen et al. *Circ. Res.* 82:908-917, 1998).



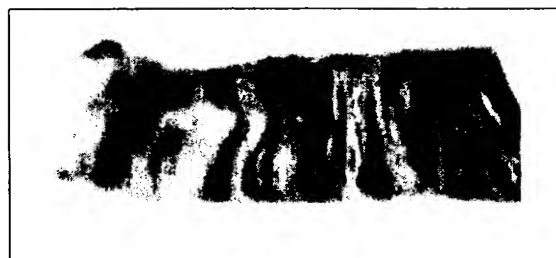
Conducting airways and lungs.



Stomach, small intestine, and esophagus.

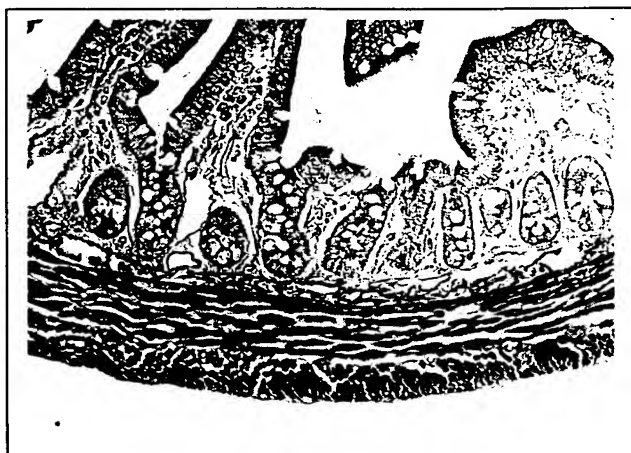


Colon.

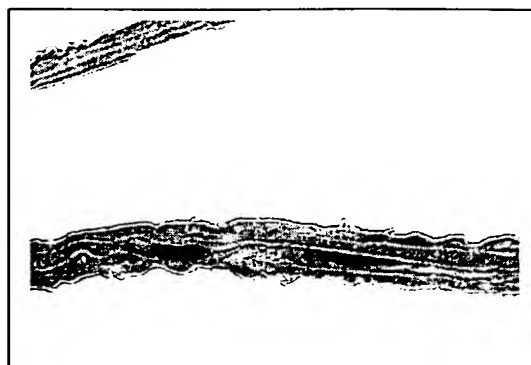


Iliac Artery.

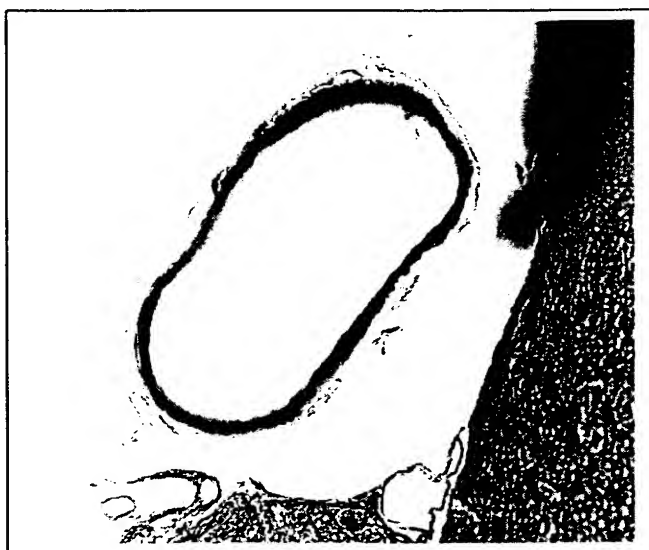
Figure 10: Histological Evaluation of Expression of the Human MHC-5.1/13.5-LacZ transgene in Adult (5-6 weeks old) Mouse Tissues Tissues were processed and stained for lacZ expression as previously described (Madsen et al. *Circ. Res.* 82:908-917, 1998).



Ileum



Abdominal aorta



Small artery (circle of Willis)



Colon

SM MHC 5'-flanking sequence

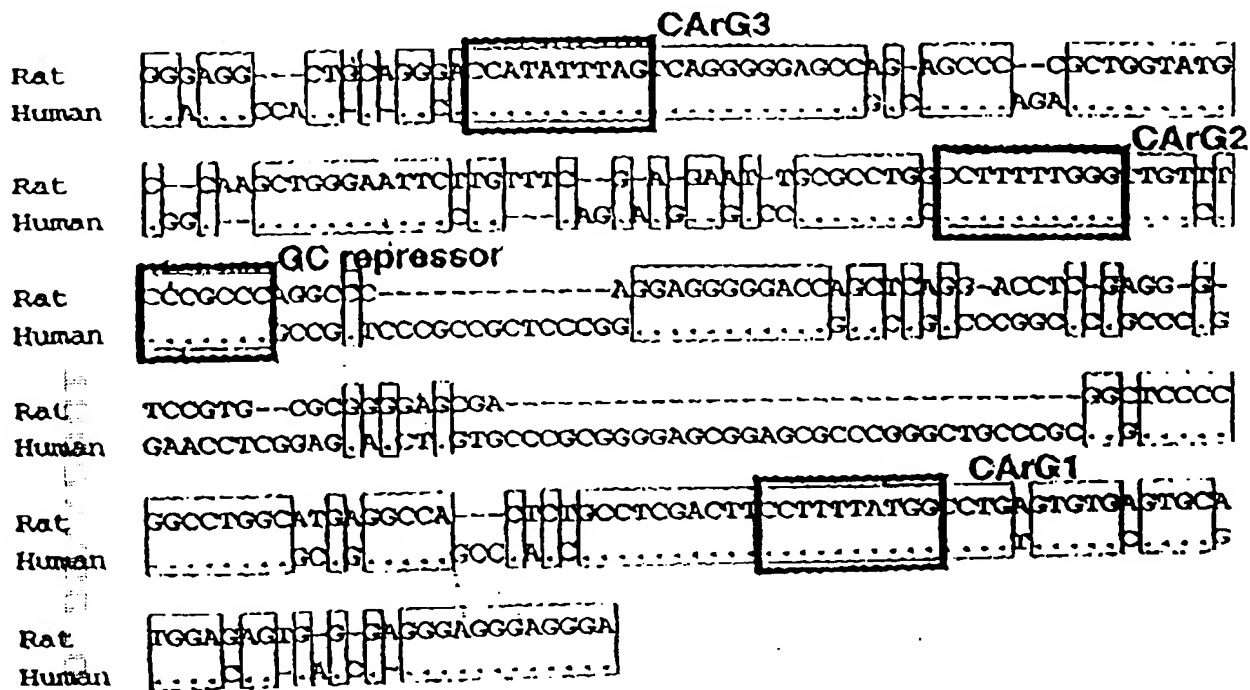


FIG. 11

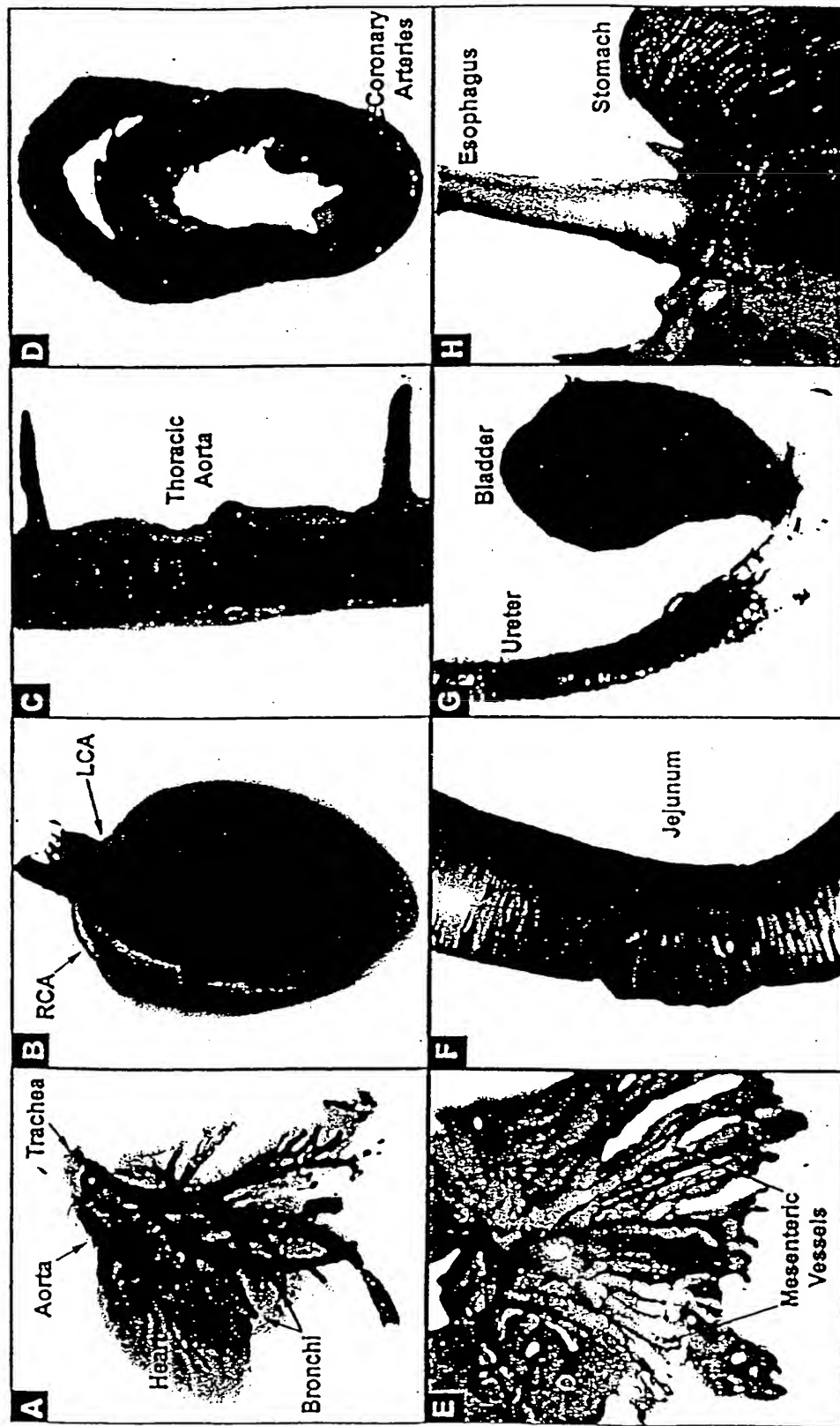


FIG. 12

2011010 3222500T

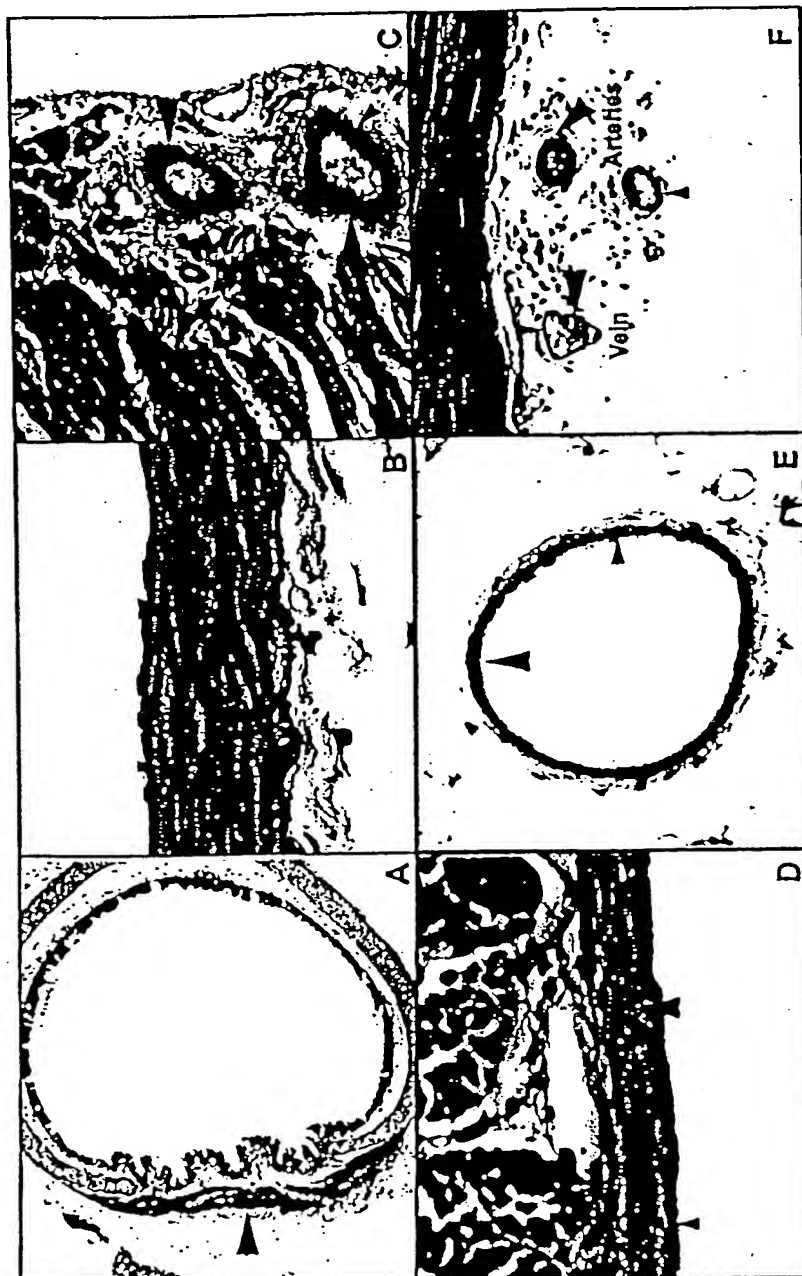


FIG. 13

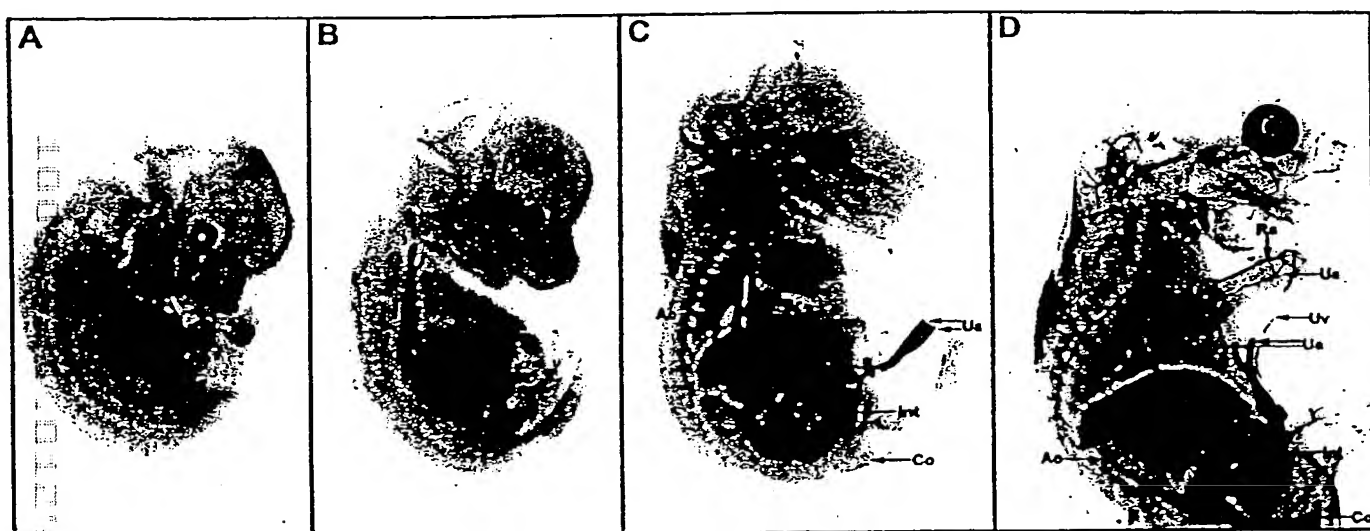


FIG. 14

2011210-70225003

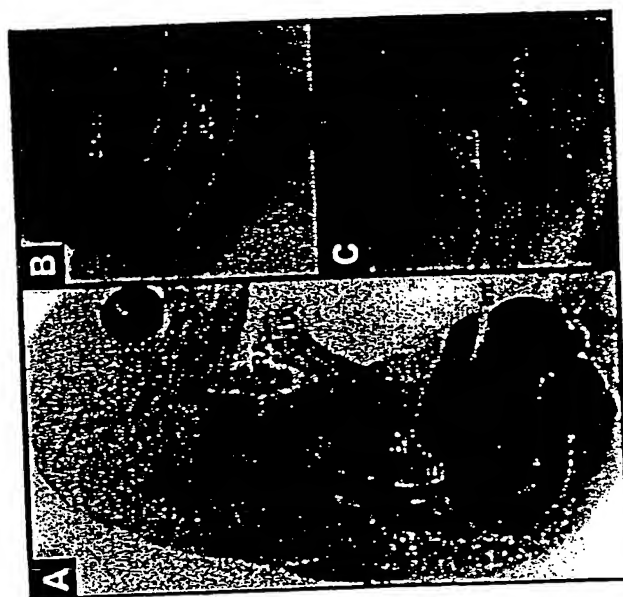


FIG. 15

SM MHC-4.2-Intron-LacZ Heart

Anterior

Posterior



FIG. 16

FIG. 17

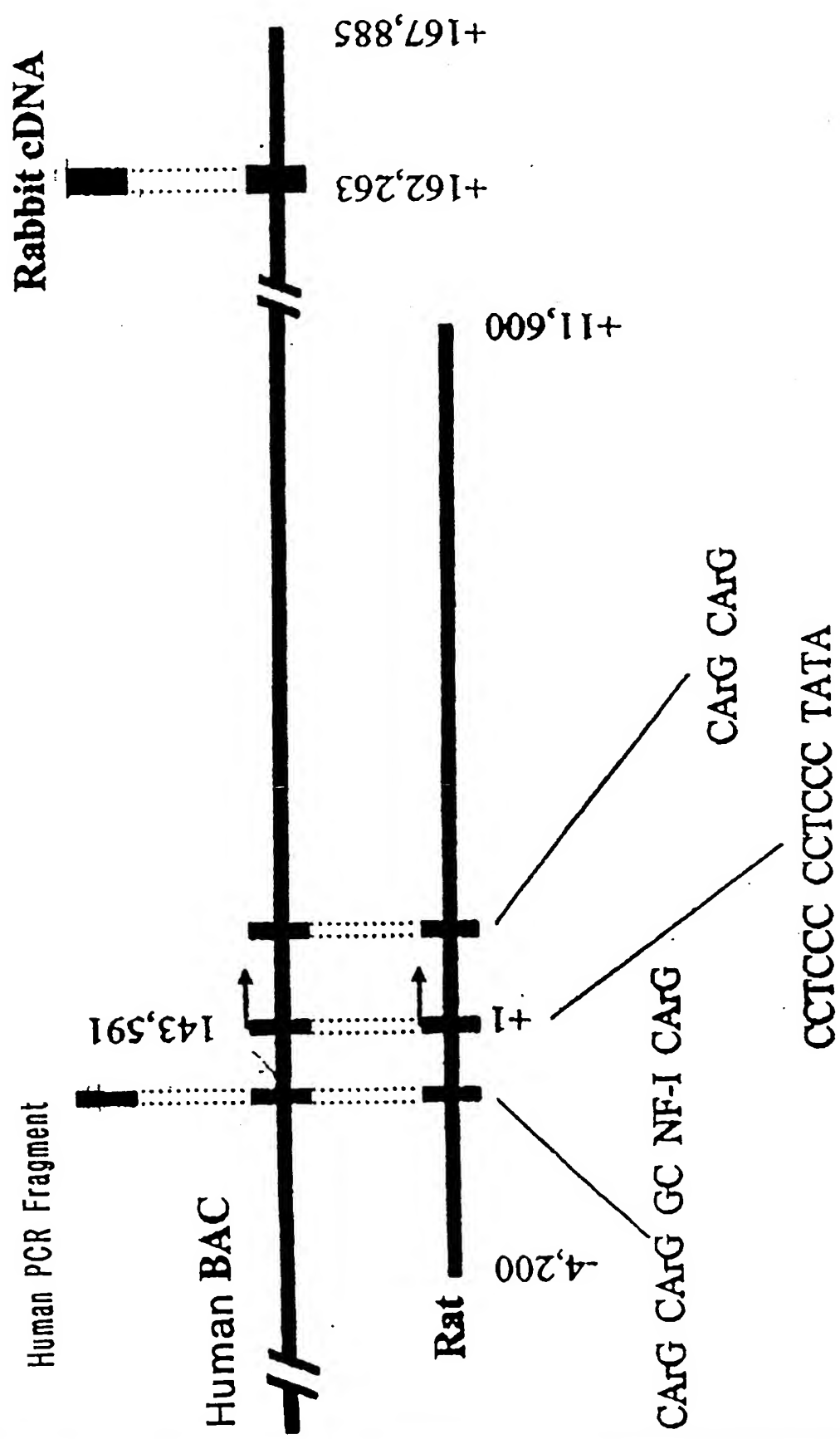
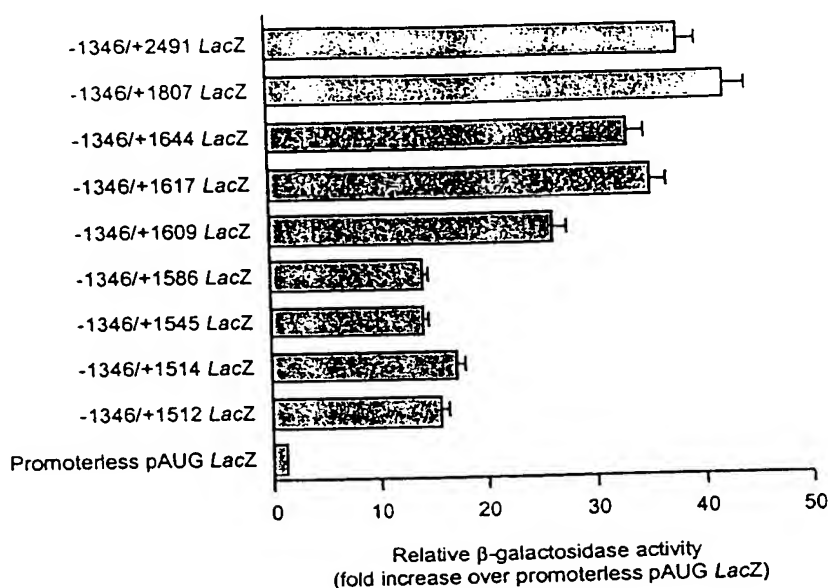


FIG. 17

A



B

Rat +1422	GT GGATG TGGTAGGGTTCCAG GAG GCTGGCGTGATCTCAAACATGCCTGG
Human +1776	AG--G--C--CCA--CCGA-AG-----AAC-T-AA--A--TG-G---TTTC-GA-AAGCC
Rat +1472	GCCAAGC CACCCTGGAGAAACC TGGACTTTTATTATCAGATCTGAAATAGA GCCTC
Human +1836	---G--TTG--T--T-A-A--A--TTT-----TG--C-----TGTGT-A
Rat +1528	TTCCGTACAAGGTAGTCACTATGGAT TTATCATTACTTTTCTGTGGGA-GGCTGGGC
Human +1896	-----TCGT-----TTG-----C-----G---A-A-A
Rat +1584	TGGAGGCAGACATGCCCTTGTATGGTAGTGTCTTCTATGAGGCCATTCCCAGTCCCCCTT
Human +1956	-T-----A-----A-T-----A--C-----C-----G-C-----
Rat +1644	GGCCAATCACCAGCCTTTTGA TGCAG CC T G ACTGGCTTGAGTTCTGGGTACT
Human +2014	C-T--G-T-----G- -CC---C--GGT-G-TC-----CCT-GGGATT--CTA

FIG. 18

Extract: Aorta Bladder Stomach
 Probe: C1 C2 SRE C1 C2 SRE C1 C2 SRE
 SRF [A → B → G → E → F → G →
 Free probe

FIG. 19

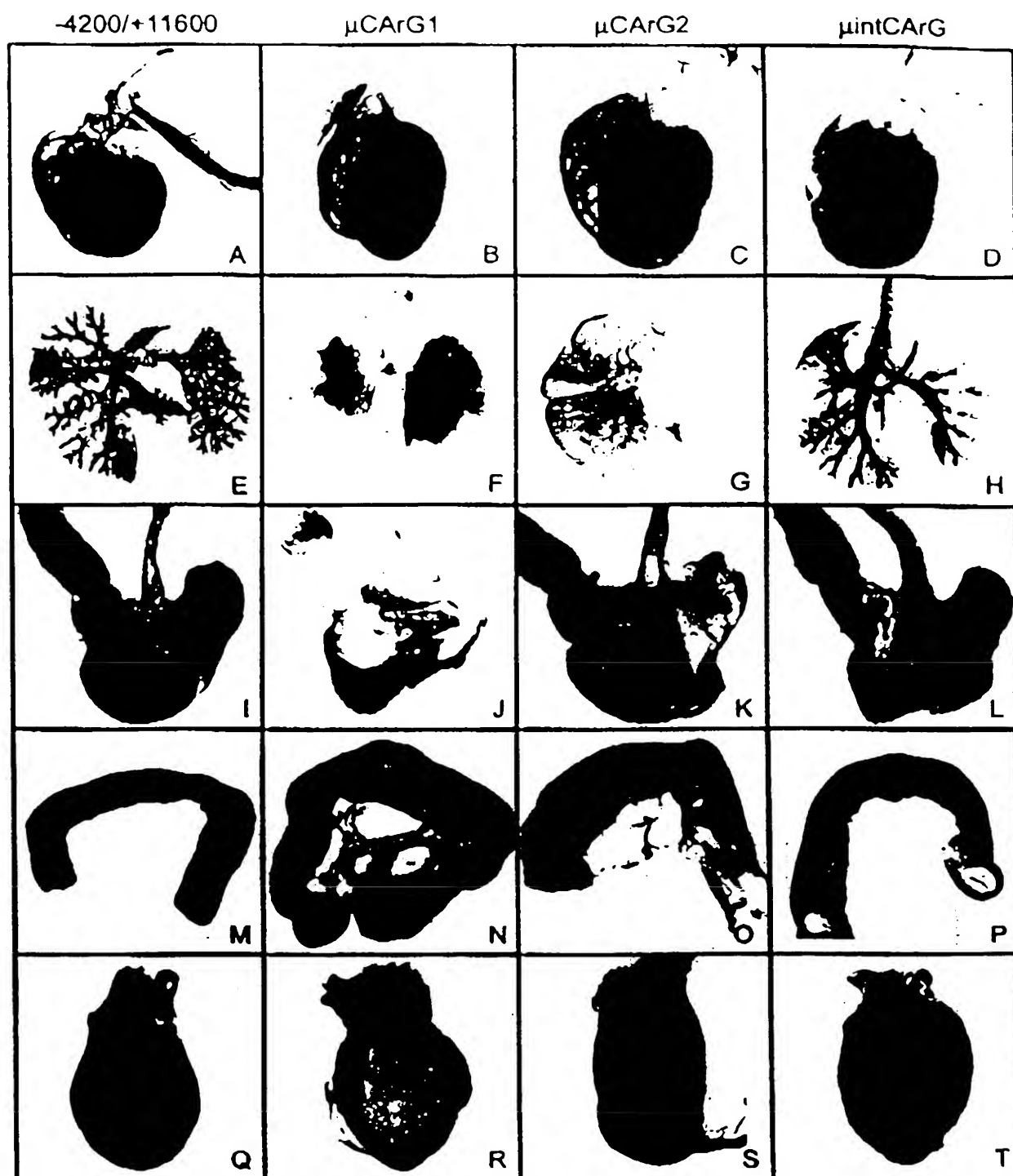


FIG. 20

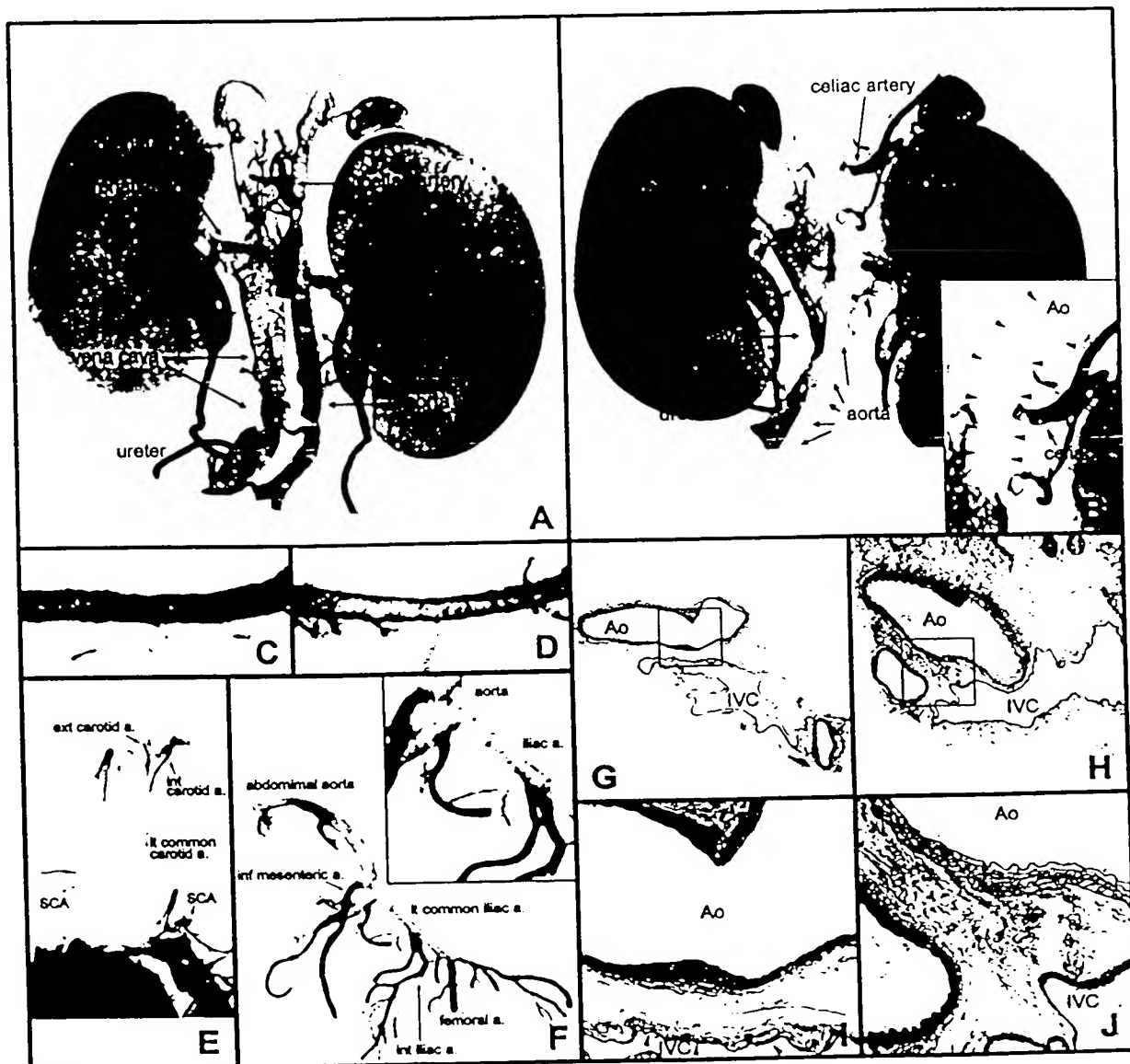


FIG. 21

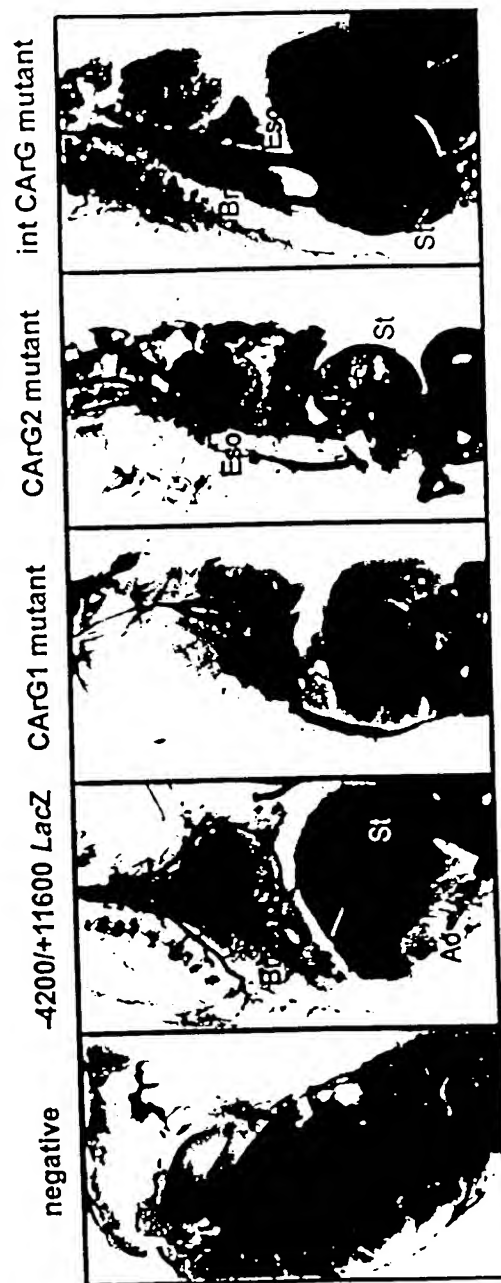


FIG. 22

SRF Ab -

SRF Ab +

Extract : Aorta Bladder Stomach Heart Liver SMC Aorta Bladder Stomach Heart Liver SMC

SRF [A → B → D → F →]

SS

1 2 3 4 5 6 7 8 9 10 11 12

FIG. 23

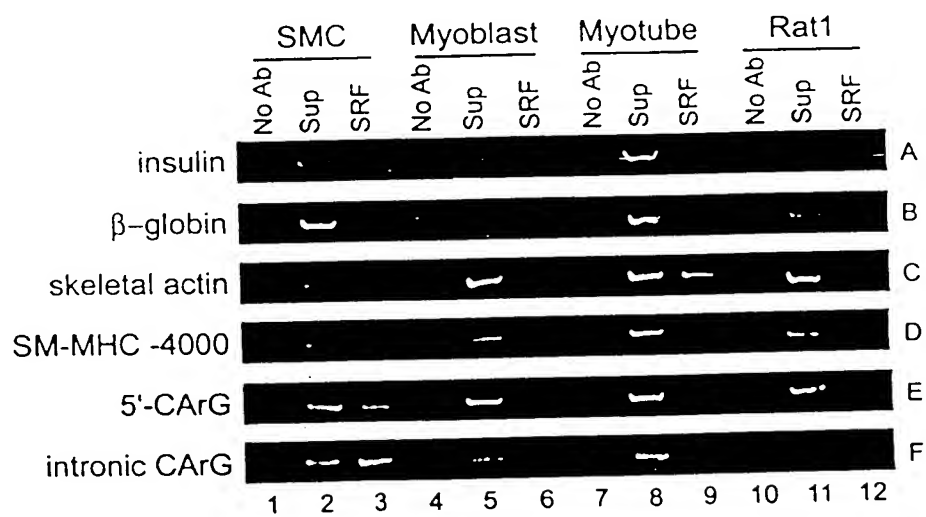


FIG. 24

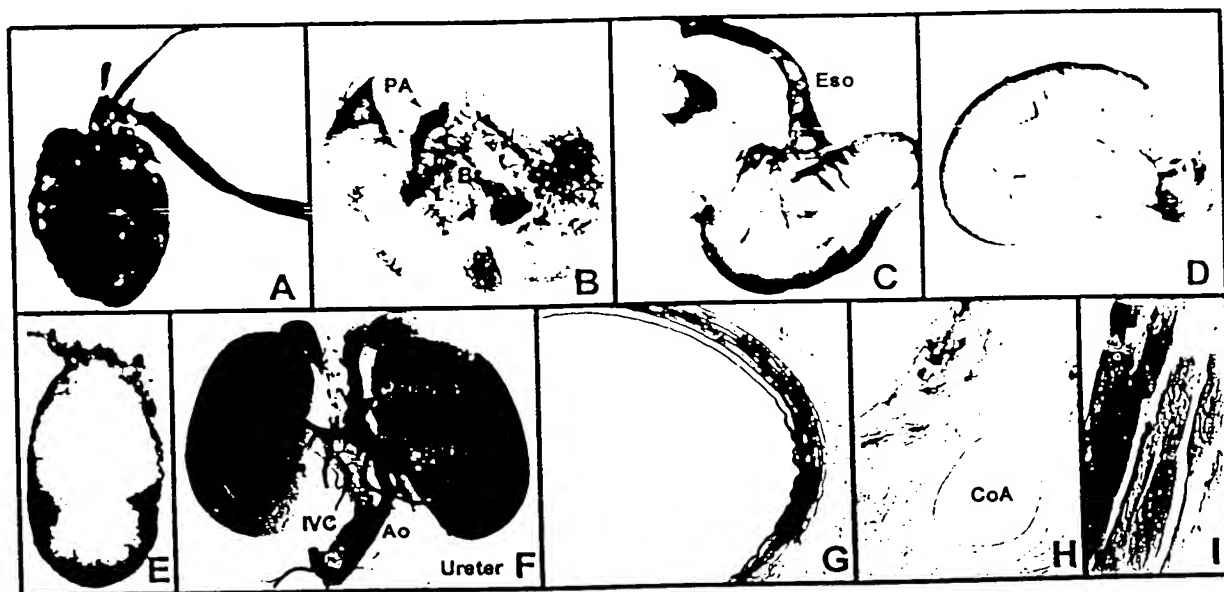


FIG. 25